

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

COMMISSIONER FOR FATE	113
P.O. Box 1450	
Alexandria, Virginia 22313-1450	
uning signio gay	

APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/657,617	/657,617 09/08/2003		09/08/2003 Duane Giles Laurent		1050
30432	7590	08/03/2004		EXAMINER	
STMICROELECTRONICS, INC.			NGUYEN, VIET Q		
MAIL STA 1310 ELEC				ART UNIT	PAPER NUMBER
		ON, TX 75006		2818	
		DATE MAIL ED: 08/03/200	4		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summary	10/657,617	LAURENT, DUANE GILES				
Office Action Summary	Examiner	Art Unit				
	Viet Q Nguyen	2818				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on Pre-A	mendment filed on 9/8/2003 .					
2a) This action is FINAL . 2b) This						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.				
Disposition of Claims						
4) Claim(s) 8-10 and 21-34 is/are pending in the a	application.					
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8)⊠ Claim(s) <u>8-10 and 21-34</u> are subject to restriction	on and/or election requirement.					
Application Papers						
9) The specification is objected to by the Examiner	•					
10) The drawing(s) filed on is/are: a) acce	epted or b) objected to by the E	xaminer.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) ☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been receive (PCT Rule 17.2(a)).	on No d in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te atent Application (PTO-152)				

Election/Restrictions

1. This application contains claims directed to the following patentably distinct species of the claimed invention:

Group 1, claims 8-10 are drawn to a dynamic RAM capable operating in either test mode or normal mode which comprises a first cell, first characterization cell, and second characterization cell all coupled to first bit line; second cell, third characterization cell, and fourth characterization cell all coupled to second bit line, a sense amplifier..., wherein during normal mode the first memory cell is selectively enabled to transfer a first memory charge onto first bitline, etc...; wherein during a first test mode the first characterization cell is selectively enabled to transfer a predetermined first reference charge onto the first bit line, etc..., and wherein during a second test mode the second characterization cell is selectively enabled to transfer a predetermined third reference charge onto the first bit line, etc...;

Group 2, claims 21-30 are drawn to a method of testing a memory device which includes the steps of "generating an even test voltage on the even reference supply line, the even test voltage being a function of physical location along the reference supply line", "generating am odd test voltage on the odd reference supply line...", and "testing at least one of the sense amplifiers using at least one test cell coupled to the even reference supply line and at least one test cell coupled to the odd reference supply line".

Group 3, claims 31-34 are drawn to a method for determining the sensitivity of a sense amplifier which includes the steps of "isolating first and second cells from first and second bit lines", "placing first reference charge with first characterization cell", placing second reference charge with third characterization cell", "transferring first reference charge from first characterization cell to first bit line", "transferring second reference charge from second characterization cell to second bit line", "sensing a first voltage differential appearing between the first bit line and the second bit line", etc.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claim is generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added.

An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence

Art Unit: 2818

now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Viet Q Nguyen whose telephone number is (571) 272-1788. The examiner can normally be reached on 7am-6pm (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (703) 308-4910. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Viet Q Nguyen
Primary Examiner
Art Unit 2818